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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/081,851

02/22/2002

Robert J. Thomas

8156-179

2100

7590

02/07/2005

Woodard, Emhardt, Naughton, Moriarty and McNett
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EXAMINER

MOHANDESI, IRAJ A

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Notice of Allowability*Supplemental***Application No.**

10/081,851

Applicant(s)THOMAS ET
AL.1008185110081851**Examiner**

Iraj A Mohandesi

Art Unit

2834

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/26/04.
2. ☒ The allowed claim(s) is/are 1-8, 11-15, 17-24 and 26-48.
3. ☒ The drawings filed on 29 April 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's representative Scott Paynter on October 8, 2004.

In Claim 1 line 10 after the word generator insert " and regulating speed of the engine with PID control based on a number of a multipliers selected as a function of the pressure in the intake manifold .

In claim 9 delete [The method of claim 8 wherein said adjusting the ratio is in accordance with at least one gain multiplier, the engine includes an intake manifold, and which includes sensing manifold pressure, the at least one gain multiplier being a function of at least rotational engine speed and the manifold pressure].

In claim 10 delete [The method of claim 1 further comprising regulating rotational speed of the engine with a Pm control based on a number of multipliers selected as a function of manifold pressure].

Allowable Subject Matter

2. Claims 8 and 9 having allowable subject matter have been incorporated into the claim 1.

Claims 8,9 ,16 and 25 have been canceled .

The following is an examiner's statement of reasons for allowance:

3. Regarding claims 1-8 ,the prior art of the record does not teach or suggest a supporting structure for a method for regulating an engine, comprising: providing an engine including one or more combustion chambers and a source of gaseous fuel including inter alia adjusting a ratio between air and fuel in the mixture to regulate frequency of the AC electric power provided by the generator and regulating rotational speed of the engine with a PID control based on a number of multipliers selected as a fraction of pressure in the intake manifold.
4. Regarding claims 29-32, the prior art of the record does not teach or suggest a supporting structure for a method for regulating an engine, comprising: providing an engine including one or more combustion chambers and a source of gaseous fuel including inter alia a compressor being driven with a turbine tuned by exhaust from the engine, providing the mixture to the combustion chambers of the engine; driving an electric power generator with the engine; detecting a sudden engine load loss of 30% or more; and retarding timing of the spark ignition devices in response to the sudden engine load loss.
5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is 571-272-2028. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IM October 12, 2004


DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800